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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/781,570	02/18/2004	Giovanni Cesura	02-CA-467/GC	9296
23334	7590 12/20/2005		EXAM	INER
FLEIT, KAIN, GIBBONS, GUTMAN, BONGINI			WAMSLEY, PATRICK G	
& BIANCO ONE BOCA	P.L. COMMERCE CENTER		ART UNIT	PAPER NUMBER
	RTHWEST 77TH STREET, SUITE 111 2819			
BOCA RAT	ON, FL 33487		DATE MAILED: 12/20/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	(ph)
	10/781,570	CESURA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Patrick G. Wamsley	2819	
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet wit	th the correspondence addre	ess
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC .136(a). In no event, however, may a red d will apply and will expire SIX (6) MON' te, cause the application to become AB.	CATION. Sply be timely filed THS from the mailing date of this comm ANDONED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 13 to 2a) This action is FINAL . 2b) This action is FINAL . Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matte	·	erits is
Disposition of Claims			
4) ☐ Claim(s) 1-30 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) 1-30 is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/	awn from consideration.		
Application Papers			
9)⊠ The specification is objected to by the Examin	ner		
10) \boxtimes The drawing(s) filed on 08/16/2005 is/are: a)		d to by the Examiner.	
Applicant may not request that any objection to the	e drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct	ction is required if the drawing(s) is objected to. See 37 CFR	1.121(d).
11)☐ The oath or declaration is objected to by the E	Examiner. Note the attached	Office Action or form PTO-	152.
Priority under 35 U.S.C. § 119			
a) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat* * See the attached detailed Office action for a list	nts have been received. Its have been received in Apporting documents have been appeared in the control of the	oplication No received in this National Sta	age
Attachment(s) 1) Notice of References Cited (PTO-892)	4) ☐ Interview Si	ummary (PTO-413)	
 Notice of Preferences Ched (1 10-032) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	Paper No(s)/Mail Date formal Patent Application (PTO-15	52)

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DETAILED ACTION

Page 2

Specification

The disclosure is objected to because of the following informalities:

Page 1, line 17: Change "analog/digital" to -- analog-to-digital --.

Page 1, line 21: Change "Analog-To-Digital" to -- analog-to-digital --.

Page 1, line 21: Change "(ADC) converters" to -- converters (ADCs) --.

Page 4, line 1: Change "sigma-delta" to -- sigma-delta ($\Sigma\Delta$) --

Page 4, line 1: Change "delta-sigma, $(\Sigma \Delta)$ " to -- delta-sigma $(\Delta \Sigma)$ --.

Page 5, line 5: Change "convert" to -- converter --.

Page 7, line 7: Change "figure" to -- Figure 1 --.

Page 8, line 1: Change "Digital-To-Analog" to -- digital-to-analog --.

Page 13, line 13: Change "sinc filter" to -- sync filter --.

Page 19, line 23: Change "very" to -- which is very --.

Page 20, line 8: Change "other next stages" to -- next stages --.

Page 20, line 20: Change "sinc filter" to -- sync filter --.

Page 20, line 23: Change "sinc filter" to -- sync filter --.

Appropriate correction is required.

Claim Objections

Claims 11 and 22 are objected to because of the following informalities:

Claim 11, line 1: Change "claim from 10" to -- claim 10 --.

Claim 22, line 1: Change "computing system" to -- computer system --.

Claim 22, line 3: Change "analog/digital" to -- analog-to-digital --.

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Claim 22, line 4: Change "analog/digital" to -- analog-to-digital --.

Appropriate correction is required.

Allowable Subject Matter

Claims 1-30 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: the references of record neither reveal nor render obvious estimation of an analog correction signal indicative of the mean value of the guantization error for at

least on selected stage in the claimed manner.

Conclusion

This application is in condition for allowance except for the following formal matters:

1) Correct the specification, as described above.

2) Correct the claims, as described above.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213. A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patents 6,970,125 and 6,867,718 to Cesura et al appear to be related to this application. U.S. Patent 4,051,470 to Esteban et al determines a mean squared error [abstract, line 8] for a quantizer [20].

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick G. Wamsley whose telephone number is (571) 272-1814. The official facsimile number is (571) 273-8300. An alternate facsimile number, (571) 273-1814, should only be used for unofficial documents.

December 15, 2005